

Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 14377  
Application ID: 10063154  
Title of Invention: HARMONIC TRANSDUCER  
ELEMENT STRUCTURES AND  
PROPERTIES  
First Named Inventor: Kjell Ingebrigtsen  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2002-03-26  
Submission Type: Utility Patent Filing  
Filing Type: new-utility  
Confirmation Number: 0  
Attorney Docket Number: 15-DS-00546  
Digital Certificate Holder: cn=George F. Wheeler, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: Vvck+Glb6LqRPqsBNsKRXw==  
Total Fees Authorized: \$2040.0  
Payment Category: DA - Deposit Account  
Deposit Account Number: 130017  
Deposit Account Name: Dean D. Small



# TRANSMITTAL FORM

10474 U.S. PTO  
10/063154  
03/26/02

Electronic Version 1.0.3

Stylesheet Version: 1.0

Submission Type: Utility Patent  
Filing

Attorney Docket  
Number:

15-DS-  
00546

## HARMONIC TRANSDUCER ELEMENT STRUCTURES AND PROPERTIES

First Named Inventor: Kjell Ingebrigtsen

### SUBMITTED BY

Name: Dean D. Small Esq.  
Registration Number: 34,730  
Electronic Signature Mark: /dds Date Signed: 20020326

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

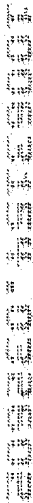
### Attached Files:

declaration	CD-PoA01.tif
declaration	CD-PoA02.tif
declaration	CD-PoA03.tif
declaration	CD-PoA04.tif

specification	specification.xml
fee-transmittal	13106US01fee.xml
ibid-transmittal	13106US01apds.xml
patent-assignments	13106US01asgn.xml

**Attached Image File(s):**

CD-PoA01.tif  
CD-PoA02.tif  
CD-PoA03.tif  
CD-PoA04.tif



**Comments:**

[illegible]

**COMBINED DECLARATION AND  
POWER OF ATTORNEY FOR PATENT APPLICATION**

As below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled

**HARMONIC TRANSDUCER ELEMENT STRUCTURES AND PROPERTIES**

the specification of which:

☒ is attached hereto.

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose to the United States Patent and Trademark Office all information which we know to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

We hereby claim foreign priority benefits under Title 35, United States Code, §119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below. We have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

<u>Number</u>	<u>Country</u>	<u>Day/Month/Year Filed</u>	<u>Is Priority Claimed?</u>
---------------	----------------	-----------------------------	-----------------------------

We hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

<u>Application Number</u>	<u>Filing Date</u>
---------------------------	--------------------

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below. Insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

Serial No.   Filing Date   Patented, Pending, or Abandoned?

We hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Christian G. Cabou	Reg. No. 35,467
Phyllis Y. Price	Reg. No. 34,234
Peter J. Vogel	Reg. No. 41,363
Michael A. Della Penna	Reg. No. 45,697
Ronald E. Myrick	Reg. No. 26,315
Henry J. Policinski	Reg. No. 26,621
Jay L. Chaskin	Reg. No. 24,030
John F. Beninati	Reg. No. 40,510
Carl B. Horton	Reg. No. 34,622
George P. McAndrews	Reg. No. 22,760
John J. Held	Reg. No. 21,061
Timothy J. Malloy	Reg. No. 25,600
William M. Wesley	Reg. No. 26,521
Lawrence M. Jarvis	Reg. No. 27,341
Gregory J. Vogler	Reg. No. 31,313
Jean Dudek Kuelper	Reg. No. 30,171
Herbert D. Hart III	Reg. No. 30,063
Robert W. Fieseler	Reg. No. 31,826
Thomas J. Wimbiscus	Reg. No. 36,059
Steven J. Hampton	Reg. No. 33,707
Priscilla F. Gallagher	Reg. No. 32,223
Stephen F. Sherry	Reg. No. 30,590
Patrick J. Arnold Jr.	Reg. No. 37,769
George Wheeler	Reg. No. 28,766
Janet M. McNicholas	Reg. No. 32,918
Ronald E. Larson	Reg. No. 24,478
Christopher C. Winslade	Reg. No. 36,308
Edward A. Mas II	Reg. No. 37,179
Gregory C. Schodde	Reg. No. 36,668
Edward W. Remus	Reg. No. 25,703
Donald J. Pochopien	Reg. No. 32,167
Sharon A. Hwang	Reg. No. 39,717
David D. Headrick	Reg. No. 40,642
Dean D. Small	Reg. No. 34,730
Alejandro Menchaca	Reg. No. 34,389
Kirk A. Vander Leest	Reg. No. 34,036
Richard T. McCaulley, Jr.	Reg. No. 41,977
Anthony E. Dowell	Reg. No. 39,661
Peter J. McAndrews	Reg. No. 38,547
Jonathan R. Sick	Reg. No. 43,920
Eligio C. Pimentel	Reg. No. 42,076
James P. Murphy	Reg. No. 40,741
Dean A. Pelletier	Reg. No. 45,007

Michael B. Harlin	Reg. No. 43,658
James R. Nuttall	Reg. No. 44,978
Jeffrey D. Wheeler	Reg. No. 39,066
Timothy L. Harney	Reg. No. 38,174
Joseph M. Barich	Reg. No. 42,291
Scott P. McBride	Reg. No. 42,853
Patricia J. McGrath	Reg. No. 44,919
Sandra A. Frantzen	Reg. No. P-48,799
Christopher V. Carani	Reg. No. 44,049
Jennifer E. Lacroix	Reg. No. 46,852
Joseph F. Harding	Reg. No. P-48,450
Joseph M. Butscher	Reg. No. P-48,326
Stephen M. Miller	Reg. No. 40,728
Troy A. Groetken	Reg. No. 46,442
Michael J. Fitzpatrick	Reg. No. P-48,510
John A. Wiberg	Reg. No. 44,401
David Muzilla	Reg. No. P-50,914

Address all telephone calls to Stephen Miller at telephone number:

(312) 775-8000

Address all correspondence to:

Stephen Miller  
McAndrews, Held & Malloy, Ltd.  
34th Floor  
500 W. Madison Street  
Chicago, Illinois 60661

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

This declaration names 2 inventor(s) below.  
Information about sole or first inventor:

(Kjell Arne Ingebrigtsen):

Residence: Einar Ofstis vei 27  
7033 Trondheim  
Norway

Citizenship: Norway  
Post Office Address: Same

First inventor's signature:

*Kjell Arne Ingebrigtsen*

Date Signed: 07-02-2002

---

Information about second joint inventor:

(Arne Ronnekleiv):

Residence: Steinasen 39  
N-7049 Trondheim  
Norway

Citizenship: Norway  
Post Office Address: Same

Second inventor's signature: Arne Ronnekleiv

Date Signed: 07-02-2002

---

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Large Entity

**TOTAL FEES AUTHORIZED: \$ 2040**

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 130017



Deposit Account Name: McAndrews Held & Malloy, Ltd.

Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

## SUBMITTED BY

Authorized Name: Dean D. Small

Electronic Signature Mark: /dds

Date Signed: 20020326

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 62	103	\$ 18	42	\$ 756
Independent Claims: 9	102	\$ 84	6	\$ 504

**Subtotal For Extra Claims Fees: \$ 1260**

### ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40

Subtotal For Additional Fees: \$ 40